

Patent Abstracts of Japan

PUBLICATION NUMBER : 02284398
PUBLICATION DATE : 21-11-90

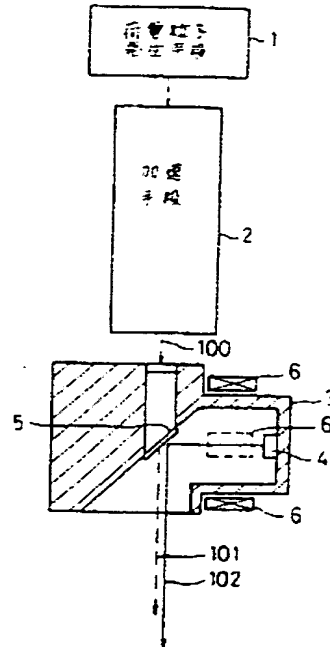
APPLICATION DATE : 25-04-89
APPLICATION NUMBER : 01106223

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INT.CL. : H05G 2/00 G21K 1/00 G21K 5/00

TITLE : CHARGED PARTICLE ACCELERATOR



ABSTRACT : PURPOSE: To perform simulation prior to medical care and apply radio-active care to a subject part in the same medical device continuously by radiating a low-energy X-ray for simulation in the same direction from the same source position substantially as the radiation direction of radial ray for medical care.

CONSTITUTION: An X-ray generating means 3 emits low energy heat electrons from a heat electron radiation cathode 4 to pass through a magnetic field formed by a deflection magnet 6 and collides with a target 5 to be a low energy X-ray 102 to be used for simulation. When the low energy heat electrons pass the magnetic field formed by the deflection magnet, a supply current to an excitation coil of the deflection magnet 6 is changed to make the position of the ray source of the X-ray 102 generated on the target 5 to be similar to the position of the ray source of an X-ray 101. A high energy electron current is then radiated from an acceleration means 2 as a radial ray 100, it is collided with the target 5 inside the X-ray generating means 3, so it is converted into the high energy X-ray 101 to be radial ray for medical care. Simulation prior to medical care can thus be performed and radiation can be applied for medical care in the same medical device continuously.

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